

IFW

PATENT



UNITED STATES PATENT AND TRADEMARK OFFICE
(Case No. 00-1123-R)

Application of:)
Lin, et al.)
Serial No.: 10/667,696) Art Unit: 1641
Filed: September 22, 2003) Examiner: TBA
For: Label-Free Methods for Performing Assays Using)
a Colorimetric Resonant Optical Biosensor)

TRANSMITTAL LETTER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

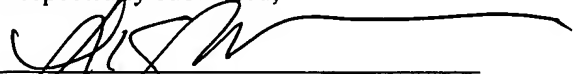
Dear Sir:

In regard to the above identified application,

1. We are transmitting herewith the attached:
 - a) Fifth Supplemental Information Disclosure Statement PTO Form 1449;
 - b) 22 cited references;
 - c) Return postcard
2. With respect to fees:
 - a) It is believed no fee is due at this time.
 - b) Please charge any underpayment or credit any overpayment our Deposit Account, No. 13-2490.
3. GENERAL AUTHORIZATION: Please charge any additional fees or credit overpayment to Deposit Account No. 13-2490. A duplicate copy of this sheet is enclosed.
4. CERTIFICATE OF MAILING UNDER 37 CFR § 1.8: The undersigned hereby certifies that this Transmittal Letter and the paper, as described in paragraph 1, are being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on May 25, 2005.

Date: May 25, 2005

Respectfully submitted,



Lisa M. W. Hillman, Ph.D
Registration No. 43,673



PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE
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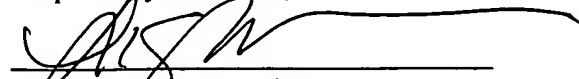
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FIFTH INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to the duty of disclosure provided by 35 C.F.R. § 1.56 and §§ 1.97-99, the applicants wish to make the following references of record in the above-identified application. Required copies of the references are enclosed. Copies are also listed in the PTO-1449 form enclosed herewith. It is requested that the documents be given careful consideration and that they be cited of record in the prosecution history of the present application so that they will appear on the face of the patent issuing from the present application.

The Office has waived the requirement under 37 C.F.R. §1.98 (a)(2)(iii) for submitting a copy of the pending U.S. application that is stored in the USPTO IFW system. In accordance with this waiver, cited U.S. patent application publication marked with "*" are not enclosed.

In judgment of the undersigned, portions of the listed references may be material to the Examiner's consideration of the presently present claims. This statement is not a


representation that the cited references have effective dates early enough to be "prior art" within the meaning of 35 U.S.C. §§102 or 103.

Applicants do not believe any fee is due with this submission. If this belief is in error and the Patent Office determines that the fee prescribed in the relevant portion of 37 C.F.R. §1.97 is applicable, the undersigned attorney by his signature hereby authorizes any such fee to be debited from Deposit Account 13-2490.

Respectfully submitted,

Date: MAY 25, 2005

By:



Lisa M.W. Hillman, Ph.D
Reg. No. 43,673

FORM PTO-1449
(Rev. 2-32)

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.

00-1123-R

Serial No.

10/667,696

**FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)



Applicant:

Lin, et al.

Filing Date:

September 22, 2003

Group:

1641

U.S. PATENT DOCUMENTS


Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1.	3,689,346	9/5/72	Rowland	156	245	9/29/70
	2.	4,420,502	12/13/83	Conley	427	54.1	3/18/82
	3.	5,155,785	10/13/92	Holland, et al.	385	89	10/30/91
	4.	US 2003/0148542*	8-7-03	Pawlak			11-27-02
	5.	US 2002/0171045*	11-21-02	Perraut			5-17-02

FOREIGN PATENT DOCUMENTS

		Document Number							Date	Country	Class	Subclass	Translation	
													Yes	No
6.	2	3	9	5	3	1	8	8/23/01	CA					
7.	2	3	9	4	9	6	6	8/23/01	CA					
8.	2	8	0	1	9	7	7	02/12/99	FR					
9.	0	3	2	6	2	9	1	02/08/89	EP					
10.	9	9	5	4	7	1	4	28/10/99	PCT					
11.	0	0	2	9	8	3	0	25/05/00	PCT					

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

		12.	Anderson, et al., "Proteomics: applications in basic and applied biology", Current Opinion in Biotechnology, 2000, 11:408-412
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	13.	MacBeath, et al., "Printing Proteins as Microarrays for High-Throughput Function Determination", <i>Science</i> , Vol. 289, pp. 1760-1763, 2000
	14.	deWildt, et al., "Antibody arrays for high-throughput screening of antibody-antigen interactions", <i>Nature Biotechnology</i> , Vol. 18, pp. 989-994, 2000
	15.	Cunningham, et al., "A plastic colorimetric resonant optical biosensor for multiparallel detection of label-free biochemical interactions", <i>Sensors and Actuators B</i> , 85 (2002) 219-226
	16.	Caruso, et al., "Quartz Crystal Microbalance Study of DNA Immobilization and Hybridization for Nucleic Acid Sensor Development", <i>Analytical Chemistry</i> , Vol. 69, No. 11, pp. 2043-2049, 1997
	17.	Hefti, et al., "Sensitive detection method of dielectric dispersions in aqueous-based, surface-bound macromolecular structures using microwave spectroscopy", <i>Applied Physics Letters</i> , Vol. 75, No. 12, pp. 1802-1804, 1999
	18.	Wu, et al., "Bioassay of prostate-specific antigen (PSA) using microcantilevers", <i>Nature Biotechnology</i> , vol. 19, pp. 856-860, 2001
	19.	Wasserman, et al., "Structure and Reactivity of Alkylsiloxane Monolayers Formed by Reaction of Alkyltrichlorosilanes on Silicon Substrates", <i>Langmuir</i> , 5, 1074-1087, 1989
	20.	Kallury, et al., "X-ray Photoelectron Spectroscopy of Silica Surfaces Treated with Polyfunctional Silanes", <i>Anal. Chem.</i> , 60, 169-172, 1988
	21.	Cunningham, et al., "Colorimetric resonant reflection as a direct biochemical assay technique", <i>Sensors and Actuators B</i> , 81 (2002) 316-328
	22.	Mullaney, et al., "Epitope Mapping of Neutralizing Botulinum Neurotoxin A Antibodies by Phage Display", <i>Infection and Immunity</i> , Vol. 69, No. 10, pp. 6511-6514, 2001
	23.	Neuschafer et al., Evanescent resonator chips: a universal platform with superior sensitivity for fluorescence-based microarrays. <i>Biosensors & Bioelectronics</i> , 18 (2003) 489-497.
	24.	Budach et al., Generation of transducers for fluorescence-based microarrays with enhanced sensitivity and their application for gene expression profiling. <i>Analytical Chemistry</i> . 2003 Jun 1;75(11):2571-7.
EXAMINER		DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.